

Test Report

Customer: Rowfont Cottage
Wallage Lane
RH10 4NG
United Kingdom

Contact Person: Mr. Simon Stokes

Report No.: (25420)345-475627

Report Version: 1

Date of Reception: 04.12.2020

Report Date: 10.12.2020

Date of Order: 30.11.2020

Sampled By: client

Sample Information

Testing Requirements: Tested according to "ordered" requirements

Sample Description: 4 Varients of wood stain, 6 Varients paint, 1 Primer & 1 Sealant

Customer Reference: Ref.: 247166

Performance Date: 04.12.2020 - 10.12.2020

No. of workdays: 4

Submitted Samples

Nr. 1



Summary of Test Results

Tested according to "ordered" requirements

Tests required	Evaluation	Remark
Heavy metals acc. to ASTM F963, chapter 4.3.5.	Pass	
Heavy metals, total content in surface coatings (US / Canada)	Pass	
Lead in surface coating (CPSIA) - 16CFR CPSC 1303	Pass	

Tested Samples

Article No	Sample ID	Sample description
	475627-01	1) Ink sample Hot Pink Wood Stains (dried)
	475627-02	2) Ink sample Sky Blue Wood Stains (wet)
	475627-03	3) Ink sample Strawberry Red Wood Stains (dried)
	475627-04	4) Ink sample Sunshine Yellow Wood Stains (dried)
	475627-05	5) Ink sample White Pastel Wood Stains (dried)
	475627-06	6) Ink sample Cadmium Red Fauxcrylics (dried)
	475627-07	7) Ink sample Yellow Fauxcrylics (dried)
	475627-08	8) Ink sample Hot Pink Fauxcrylics (dried)
	475627-09	9) Ink sample Mars Black Fauxcrylics (dried)
	475627-10	10) Ink sample Cobalt Blue Fauxcrylics (dried)
	475627-11	11) Ink sample Primer (dried)
	475627-12	12) Ink sample Sealant (wet)

Test Results

Tested according to "ordered" requirements

Sample Description:		Lab Reference No:	
1) Ink sample Hot Pink Wood Stains (dried)		475627-01	
Test Method / Standard:	Heavy metals, total content in surface coatings (US): ASTM F963-17 section 4.3.5.1(2) & 8.3.1, CPSC-CH-E 1003-09.1, ICP-MS analysis, reporting limit: 5 mg/kg		
Test Location:	Parameter has been analyzed at BVCPS laboratory Schwerin.		
Parameter	Limit	Result	Evaluation
Antimony (Sb)	≤ 48 mg/kg	<5 mg/kg	Pass
Arsenic (As)	≤ 20 mg/kg	<5 mg/kg	Pass
Barium (Ba)	≤ 800 mg/kg	21.8 mg/kg	Pass
Cadmium (Cd)	≤ 60 mg/kg	<5 mg/kg	Pass
Chromium (Cr)	≤ 48 mg/kg	<5 mg/kg	Pass
Lead (Pb)	≤ 90 mg/kg	<5 mg/kg	Pass
Mercury (Hg)	≤ 48 mg/kg	<5 mg/kg	Pass
Selenium (Se)	≤ 400 mg/kg	<5 mg/kg	Pass
Remark:	In case of 475627-01 there is not enough material for the analysis of total heavy metals content and heavy metals soluble. We performed a total element content screening. The results are below 80 % of the limit value for soluble elements. The analysis of soluble elements is not necessary.		



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Sample Description: 2) Ink sample Sky Blue Wood Stains (wet)		Lab Reference No: 475627-02	
Test Method / Standard: Lead in paints and surface coating (CPSIA): 16 CFR 1303, Lead in paints and surface coating, reporting limit: 1 mg/kg			
Test Location: Parameter has been analyzed at BVCPS laboratory Schwerin.			
Parameter	Limit	Result	Evaluation
Lead in surface coating (CPSIA)	≤ 90 mg/kg	<1 mg/kg	Pass
Test Method / Standard: Safety of toys acc. to ASTM F963-17 (USA) - migration of heavy metals: ASTM F963 (USA), section 4.3.5.			
Test Location: Parameter has been analyzed at BVCPS laboratory Schwerin.			
Parameter	Limit	Result	Evaluation
Antimony (Sb)	≤ 60 mg/kg	<1 mg/kg	Pass
Arsenic (As)	≤ 25 mg/kg	<1 mg/kg	Pass
Barium (Ba)	≤ 1000 mg/kg	<1 mg/kg	Pass
Cadmium (Cd)	≤ 75 mg/kg	<1 mg/kg	Pass
Chromium (Cr)	≤ 60 mg/kg	<1 mg/kg	Pass
Lead (Pb)	≤ 90 mg/kg	<1 mg/kg	Pass
Mercury (Hg)	≤ 60 mg/kg	<0.1 mg/kg	Pass
Selenium (Se)	≤ 500 mg/kg	<5 mg/kg	Pass

Sample Description: 3) Ink sample Strawberry Red Wood Stains (dried)		Lab Reference No: 475627-03	
Test Method / Standard: Lead in paints and surface coating (CPSIA): 16 CFR 1303, Lead in paints and surface coating, reporting limit: 1 mg/kg			
Test Location: Parameter has been analyzed at BVCPS laboratory Schwerin.			
Parameter	Limit	Result	Evaluation
Lead in surface coating (CPSIA)	≤ 90 mg/kg	<1 mg/kg	Pass
Test Method / Standard: Safety of toys acc. to ASTM F963-17 (USA) - migration of heavy metals: ASTM F963 (USA), section 4.3.5.			
Test Location: Parameter has been analyzed at BVCPS laboratory Schwerin.			
Parameter	Limit	Result	Evaluation
Antimony (Sb)	≤ 60 mg/kg	<1 mg/kg	Pass
Arsenic (As)	≤ 25 mg/kg	<1 mg/kg	Pass
Barium (Ba)	≤ 1000 mg/kg	16.9 mg/kg	Pass
Cadmium (Cd)	≤ 75 mg/kg	<1 mg/kg	Pass
Chromium (Cr)	≤ 60 mg/kg	<1 mg/kg	Pass
Lead (Pb)	≤ 90 mg/kg	<1 mg/kg	Pass
Mercury (Hg)	≤ 60 mg/kg	<0.1 mg/kg	Pass
Selenium (Se)	≤ 500 mg/kg	<5 mg/kg	Pass



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Sample Description: 4) Ink sample Sunshine Yellow Wood Stains (dried)		Lab Reference No: 475627-04	
Test Method / Standard: Lead in paints and surface coating (CPSIA): 16 CFR 1303, Lead in paints and surface coating, reporting limit: 1 mg/kg			
Test Location: Parameter has been analyzed at BVCPS laboratory Schwerin.			
Parameter	Limit	Result	Evaluation
Lead in surface coating (CPSIA)	≤ 90 mg/kg	<1 mg/kg	Pass
Test Method / Standard: Safety of toys acc. to ASTM F963-17 (USA) - migration of heavy metals: ASTM F963 (USA), section 4.3.5.			
Test Location: Parameter has been analyzed at BVCPS laboratory Schwerin.			
Parameter	Limit	Result	Evaluation
Antimony (Sb)	≤ 60 mg/kg	<1 mg/kg	Pass
Arsenic (As)	≤ 25 mg/kg	<1 mg/kg	Pass
Barium (Ba)	≤ 1000 mg/kg	5.87 mg/kg	Pass
Cadmium (Cd)	≤ 75 mg/kg	<1 mg/kg	Pass
Chromium (Cr)	≤ 60 mg/kg	<1 mg/kg	Pass
Lead (Pb)	≤ 90 mg/kg	<1 mg/kg	Pass
Mercury (Hg)	≤ 60 mg/kg	<0.1 mg/kg	Pass
Selenium (Se)	≤ 500 mg/kg	<5 mg/kg	Pass

Sample Description: 5) Ink sample White Pastel Wood Stains (dried)		Lab Reference No: 475627-05	
Test Method / Standard: Lead in paints and surface coating (CPSIA): 16 CFR 1303, Lead in paints and surface coating, reporting limit: 1 mg/kg			
Test Location: Parameter has been analyzed at BVCPS laboratory Schwerin.			
Parameter	Limit	Result	Evaluation
Lead in surface coating (CPSIA)	≤ 90 mg/kg	4.15 mg/kg	Pass
Test Method / Standard: Safety of toys acc. to ASTM F963-17 (USA) - migration of heavy metals: ASTM F963 (USA), section 4.3.5.			
Test Location: Parameter has been analyzed at BVCPS laboratory Schwerin.			
Parameter	Limit	Result	Evaluation
Antimony (Sb)	≤ 60 mg/kg	<1 mg/kg	Pass
Arsenic (As)	≤ 25 mg/kg	<1 mg/kg	Pass
Barium (Ba)	≤ 1000 mg/kg	1.90 mg/kg	Pass
Cadmium (Cd)	≤ 75 mg/kg	<1 mg/kg	Pass
Chromium (Cr)	≤ 60 mg/kg	<1 mg/kg	Pass
Lead (Pb)	≤ 90 mg/kg	1.02 mg/kg	Pass
Mercury (Hg)	≤ 60 mg/kg	<0.1 mg/kg	Pass
Selenium (Se)	≤ 500 mg/kg	<5 mg/kg	Pass

Sample Description: 6) Ink sample Cadmium Red Fauxcrylics (dried)		Lab Reference No: 475627-06	
Test Method / Standard: Lead in paints and surface coating (CPSIA): 16 CFR 1303, Lead in paints and surface coating, reporting limit: 1 mg/kg			
Test Location: Parameter has been analyzed at BVCPS laboratory Schwerin.			
Parameter	Limit	Result	Evaluation
Lead in surface coating (CPSIA)	≤ 90 mg/kg	1.31 mg/kg	Pass
Test Method / Standard: Safety of toys acc. to ASTM F963-17 (USA) - migration of heavy metals: ASTM F963 (USA), section 4.3.5.			
Test Location: Parameter has been analyzed at BVCPS laboratory Schwerin.			
Parameter	Limit	Result	Evaluation
Antimony (Sb)	≤ 60 mg/kg	<1 mg/kg	Pass
Arsenic (As)	≤ 25 mg/kg	<1 mg/kg	Pass
Barium (Ba)	≤ 1000 mg/kg	4.05 mg/kg	Pass
Cadmium (Cd)	≤ 75 mg/kg	<1 mg/kg	Pass
Chromium (Cr)	≤ 60 mg/kg	2.57 mg/kg	Pass
Lead (Pb)	≤ 90 mg/kg	<1 mg/kg	Pass
Mercury (Hg)	≤ 60 mg/kg	<0.1 mg/kg	Pass
Selenium (Se)	≤ 500 mg/kg	<5 mg/kg	Pass
Remark: Information about analysis: According to this standard, it was necessary to adjust the pH-value of the sample extract. The procedure for buffered sample was applied. After the migration the pH-value of the extract was out of range (< 1.10 or > 1.30). The pH-value after migration was 0,656.			

Sample Description: 7) Ink sample Yellow Fauxcrylics (dried)		Lab Reference No: 475627-07	
Test Method / Standard: Lead in paints and surface coating (CPSIA): 16 CFR 1303, Lead in paints and surface coating, reporting limit: 1 mg/kg			
Test Location: Parameter has been analyzed at BVCPS laboratory Schwerin.			
Parameter	Limit	Result	Evaluation
Lead in surface coating (CPSIA)	≤ 90 mg/kg	1.09 mg/kg	Pass
Test Method / Standard: Safety of toys acc. to ASTM F963-17 (USA) - migration of heavy metals: ASTM F963 (USA), section 4.3.5.			
Test Location: Parameter has been analyzed at BVCPS laboratory Schwerin.			
Parameter	Limit	Result	Evaluation
Antimony (Sb)	≤ 60 mg/kg	<1 mg/kg	Pass
Arsenic (As)	≤ 25 mg/kg	<1 mg/kg	Pass
Barium (Ba)	≤ 1000 mg/kg	7.49 mg/kg	Pass
Cadmium (Cd)	≤ 75 mg/kg	<1 mg/kg	Pass
Chromium (Cr)	≤ 60 mg/kg	<1 mg/kg	Pass
Lead (Pb)	≤ 90 mg/kg	1.49 mg/kg	Pass
Mercury (Hg)	≤ 60 mg/kg	<0.1 mg/kg	Pass
Selenium (Se)	≤ 500 mg/kg	<5 mg/kg	Pass
Remark: Information about analysis: According to this standard, it was necessary to adjust the pH-value of the sample extract. The procedure for buffered sample was applied. After the migration the pH-value of the extract was out of range (< 1.10 or > 1.30). The pH-value after migration was 1,670.			



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Sample Description: 8) Ink sample Hot Pink Fauxcrylics (dried)		Lab Reference No: 475627-08	
Test Method / Standard: Lead in paints and surface coating (CPSIA): 16 CFR 1303, Lead in paints and surface coating, reporting limit: 1 mg/kg			
Test Location: Parameter has been analyzed at BVCPS laboratory Schwerin.			
Parameter	Limit	Result	Evaluation
Lead in surface coating (CPSIA)	≤ 90 mg/kg	1.28 mg/kg	Pass
Test Method / Standard: Safety of toys acc. to ASTM F963-17 (USA) - migration of heavy metals: ASTM F963 (USA), section 4.3.5.			
Test Location: Parameter has been analyzed at BVCPS laboratory Schwerin.			
Parameter	Limit	Result	Evaluation
Antimony (Sb)	≤ 60 mg/kg	<1 mg/kg	Pass
Arsenic (As)	≤ 25 mg/kg	<1 mg/kg	Pass
Barium (Ba)	≤ 1000 mg/kg	6.41 mg/kg	Pass
Cadmium (Cd)	≤ 75 mg/kg	<1 mg/kg	Pass
Chromium (Cr)	≤ 60 mg/kg	2.49 mg/kg	Pass
Lead (Pb)	≤ 90 mg/kg	<1 mg/kg	Pass
Mercury (Hg)	≤ 60 mg/kg	<0.1 mg/kg	Pass
Selenium (Se)	≤ 500 mg/kg	<5 mg/kg	Pass
Remark: Information about analysis: According to this standard, it was necessary to adjust the pH-value of the sample extract. The procedure for buffered sample was applied.			

Sample Description: 9) Ink sample Mars Black Fauxcrylics (dried)		Lab Reference No: 475627-09	
Test Method / Standard: Lead in paints and surface coating (CPSIA): 16 CFR 1303, Lead in paints and surface coating, reporting limit: 1 mg/kg			
Test Location: Parameter has been analyzed at BVCPS laboratory Schwerin.			
Parameter	Limit	Result	Evaluation
Lead in surface coating (CPSIA)	≤ 90 mg/kg	<1 mg/kg	Pass
Test Method / Standard: Safety of toys acc. to ASTM F963-17 (USA) - migration of heavy metals: ASTM F963 (USA), section 4.3.5.			
Test Location: Parameter has been analyzed at BVCPS laboratory Schwerin.			
Parameter	Limit	Result	Evaluation
Antimony (Sb)	≤ 60 mg/kg	<1 mg/kg	Pass
Arsenic (As)	≤ 25 mg/kg	<1 mg/kg	Pass
Barium (Ba)	≤ 1000 mg/kg	5.75 mg/kg	Pass
Cadmium (Cd)	≤ 75 mg/kg	<1 mg/kg	Pass
Chromium (Cr)	≤ 60 mg/kg	<1 mg/kg	Pass
Lead (Pb)	≤ 90 mg/kg	<1 mg/kg	Pass
Mercury (Hg)	≤ 60 mg/kg	<0.1 mg/kg	Pass
Selenium (Se)	≤ 500 mg/kg	<5 mg/kg	Pass
Remark: Information about analysis: According to this standard, it was necessary to adjust the pH-value of the sample extract. The procedure for buffered sample was applied. After the migration the pH-value of the extract was out of range (< 1.10 or > 1.30). The pH-value after migration was 0,869.			



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Sample Description: 10) Ink sample Cobalt Blue Fauxcrylics (dried)		Lab Reference No: 475627-10	
Test Method / Standard: Lead in paints and surface coating (CPSIA): 16 CFR 1303, Lead in paints and surface coating, reporting limit: 1 mg/kg			
Test Location: Parameter has been analyzed at BVCPS laboratory Schwerin.			
Parameter	Limit	Result	Evaluation
Lead in surface coating (CPSIA)	≤ 90 mg/kg	1.19 mg/kg	Pass
Test Method / Standard: Safety of toys acc. to ASTM F963-17 (USA) - migration of heavy metals: ASTM F963 (USA), section 4.3.5.			
Test Location: Parameter has been analyzed at BVCPS laboratory Schwerin.			
Parameter	Limit	Result	Evaluation
Antimony (Sb)	≤ 60 mg/kg	<1 mg/kg	Pass
Arsenic (As)	≤ 25 mg/kg	<1 mg/kg	Pass
Barium (Ba)	≤ 1000 mg/kg	7.21 mg/kg	Pass
Cadmium (Cd)	≤ 75 mg/kg	<1 mg/kg	Pass
Chromium (Cr)	≤ 60 mg/kg	1.47 mg/kg	Pass
Lead (Pb)	≤ 90 mg/kg	<1 mg/kg	Pass
Mercury (Hg)	≤ 60 mg/kg	<0.1 mg/kg	Pass
Selenium (Se)	≤ 500 mg/kg	<5 mg/kg	Pass
Remark: Information about analysis: According to this standard, it was necessary to adjust the pH-value of the sample extract. The procedure for buffered sample was applied. After the migration the pH-value of the extract was out of range (< 1.10 or > 1.30). The pH-value after migration was 0,903.			

Sample Description: 11) Ink sample Primer (dried)		Lab Reference No: 475627-11	
Test Method / Standard: Lead in paints and surface coating (CPSIA): 16 CFR 1303, Lead in paints and surface coating, reporting limit: 1 mg/kg			
Test Location: Parameter has been analyzed at BVCPS laboratory Schwerin.			
Parameter	Limit	Result	Evaluation
Lead in surface coating (CPSIA)	≤ 90 mg/kg	<1 mg/kg	Pass
Test Method / Standard: Safety of toys acc. to ASTM F963-17 (USA) - migration of heavy metals: ASTM F963 (USA), section 4.3.5.			
Test Location: Parameter has been analyzed at BVCPS laboratory Schwerin.			
Parameter	Limit	Result	Evaluation
Antimony (Sb)	≤ 60 mg/kg	<1 mg/kg	Pass
Arsenic (As)	≤ 25 mg/kg	<1 mg/kg	Pass
Barium (Ba)	≤ 1000 mg/kg	<1 mg/kg	Pass
Cadmium (Cd)	≤ 75 mg/kg	<1 mg/kg	Pass
Chromium (Cr)	≤ 60 mg/kg	<1 mg/kg	Pass
Lead (Pb)	≤ 90 mg/kg	<1 mg/kg	Pass
Mercury (Hg)	≤ 60 mg/kg	<0.1 mg/kg	Pass
Selenium (Se)	≤ 500 mg/kg	<5 mg/kg	Pass

Sample Description: 12) Ink sample Sealenx (wet)		Lab Reference No: 475627-12	
Test Method / Standard: Lead in paints and surface coating (CPSIA): 16 CFR 1303, Lead in paints and surface coating, reporting limit: 1 mg/kg			
Test Location: Parameter has been analyzed at BVCPS laboratory Schwerin.			
Parameter	Limit	Result	Evaluation
Lead in surface coating (CPSIA)	≤ 90 mg/kg	<1 mg/kg	Pass
Test Method / Standard: Safety of toys acc. to ASTM F963-17 (USA) - migration of heavy metals: ASTM F963 (USA), section 4.3.5.			
Test Location: Parameter has been analyzed at BVCPS laboratory Schwerin.			
Parameter	Limit	Result	Evaluation
Antimony (Sb)	≤ 60 mg/kg	<1 mg/kg	Pass
Arsenic (As)	≤ 25 mg/kg	<1 mg/kg	Pass
Barium (Ba)	≤ 1000 mg/kg	<1 mg/kg	Pass
Cadmium (Cd)	≤ 75 mg/kg	<1 mg/kg	Pass
Chromium (Cr)	≤ 60 mg/kg	<1 mg/kg	Pass
Lead (Pb)	≤ 90 mg/kg	<1 mg/kg	Pass
Mercury (Hg)	≤ 60 mg/kg	<0.1 mg/kg	Pass
Selenium (Se)	≤ 500 mg/kg	<5 mg/kg	Pass

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The testing of mixed samples is carried out at the customer's explicit request and may imply a deviation from the testing standard. Please note the following: results for mixed samples that are below the limit may exceed the limit if the samples contained in the mixed sample are tested individually. In these cases separate testing of the samples is recommended.

Performance Date: 04.12.2020 - 10.12.2020

Total Run Time: 4



Kristian Kiersch
GC/MS Supervisor

No results printed beyond this point in the report

Detailed Method Descriptions

Analysis / Test: Lead in paints and surface coating (CPSIA)
16 CFR 1303; Lead in surface coating, digestion with Nitric acid, ICP-MS measurement, reporting limit: 1 mg/kg



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Parameters & CAS No.

Heavy metals, total content in surface coatings (US)	(CAS No.)
Lead (Pb) (7439-92-1)	
Mercury (Hg) (7439-97-6)	
Antimony (Sb) (7440-36-0)	
Arsenic (As) (7440-38-2)	
Barium (Ba) (7440-39-3)	
Cadmium (Cd) (7440-43-9)	
Chromium (Cr) (7440-47-3)	
Selenium (Se) (7782-49-2)	

Lead in paints and surface coating (CPSIA)	(CAS No.)
Lead in surface coating (CPSIA) (7439-92-1)	

Safety of toys acc. to ASTM F963-17 (USA) - migration of heavy metals	(CAS No.)
Lead (Pb) (7439-92-1)	
Mercury (Hg) (7439-97-6)	
Antimony (Sb) (7440-36-0)	
Arsenic (As) (7440-38-2)	
Barium (Ba) (7440-39-3)	
Cadmium (Cd) (7440-43-9)	
Chromium (Cr) (7440-47-3)	
Selenium (Se) (7782-49-2)	